



Professor (Dr.) Rumki Sarkar
Department of Geography

Academic Qualifications:

M.A. & Ph. D. in Geography

Contact Address:

Department of Geography
Raiganj University
Raiganj, Uttar Dinajpur, West Bengal
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Research Interest:

Applied Fluvial Geomorphology , Statistics

Specialization:

Advanced Geomorphology

Fellowships:

CSIR – JRF + SRF

Teaching Experience:

Twelve Years +

Research Experience:

IIT Kharagpur , The University of Burdwan

Project

Shifting of Mahanada's course and confluence from downstream to upstream of the Farakka Barrage and its impact (DST, WB) received in 2021

Research Guiding Experience:

Name of the Scholar	Title of the Thesis	Co – Supervisor	Status
Arindam Dutta	A study on connectivity and accessibility of road transport network in Uttar Dinajpur District, West Bengal	Dr. Ashok Das	Awarded, 2018
MrinalKanti Roy	Ecological Change and Ethnic Identity Problem of Garo People in Garopara and Jamadarerbash Villages of Cooch Behar District of West Bengal		Ongoing
Sanjib Chakraborty	Potentialities and development of the variety of rice cultivation in some parts of Uttar Dinajpur District, West Bengal: A study in Agricultural Geography		Ongoing
Priyanka Kundu	Geomorphic Evolution, Potentialities and Problems of Wetlands in Tufanganj CD Blocks of Coochbehar District, West Bengal: A Study in Environmental Geomorphology		Awarded, 2021
Biswajit Das	Riverine morphology, agricultural landuse and planning in the Nagar-Kulik interfluves of Uttar Dinajpur District, West Bengal : A study in Applied Geomorphology		Ongoing
Majrul Sk	Analysis of channel morphometry of the Bhairab river and its impact on agriculture: A study in Applied Geomorphology		Ongoing
Bapi Saha	Hydraulic geometry of the Rehti river and its Geomorphic implications in the Himalayan Foreland Basin, West Bengal, India		Ongoing

M.Phil. Guidance

Mr. Joyjit Debnath - 2018

Mr. Santanu Roy - 2019

Mr. Ganesh Biswas - 2020

Mr. Pankaj Sarkar - 2022

Administrative Experience:

Head of the Department from April 2019 to April 2021

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

A (i) Published papers in journals

1. Role of dynamic downstream hydraulic geometry on season - wise channel behavior pattern in the floodplains of Nagar Basin , India; *Sustainable Water Resources Management*; 8 (124), August 2022. [Pranay Paul¹](#), [Rumki Sarkar²](#)
2. Flood susceptible surface detection using geospatial multi-criteria framework for management practices, *Natural Hazards*; August 2022 [Pranay Paul¹](#), [Rumki Sarkar²](#)
3. DEVIATION BETWEEN NET SOWN AREA AND IRRIGATED AREA IN THE NAGAR KULIK INTERFLUVE, UTTAR DINAJPUR, WEST BENGAL: AN ASSESSMENT [Biswajit Das *](#), [Dr. Rumki Sarkar **](#)
4. **Relation between river hydraulic and channel migration: a case study on Nagar river, India and Bangladesh**

Hydrology Current Research, Vol. 11:2, 2020

[Rumki Sarkar²](#), [Ganesh Biswas²](#), [Pankaj Sarkar¹](#), [Biswajit Das²](#)

5. Cut-Off Analysis in Some Parts of the Nagar, Kulik and Sudhani River, West Bengal and Bihar, India

**International Journal of Current Science and Multidisciplinary Research, Vol. 3
issue 3, 2020**

Biswajit Das *, Dr. Rumki Sarkar **, Nanigopal Sarkar ***

- 6. Channel shifting behavior and delineation of channel migration zone: a study on Nagar River of West Bengal, India.**

International Journal of Science and Research (IJSR), June.-2019, Vol. XVII.,No.

Dr. Rumki Sarkar*, Pankaj Sarkar,** Mr. Ganesh Biswas**

- 7. Riverine Morphology in Interfluvium and Landuse: A Review**

International Journal of Research and Analytical Reviews (IJRAR), E-ISSN: 2348-1269, Vol. 6
Issue-2, June 2019, pp-208-215

Biswajit Das*, Dr. Rumki Sarkar**

- 8. Connectivity and Accessibility of the Road Transport Network: A Review**

Review of Research, ISSN:2249-894x, IF: 5.7631(UFI), Vol. 8 Issue-8, May 2019, pp-1-5

Dr. Rumki Sarkar* Dr. Arindam Dutta**

- 9. Analysis of River Long Profile and Hydraulic Geometry to Evaluate the Present Scenario of Kulik River, India and Bangladesh**

International journal of current research Vol. 11(6), 5005-5017

Dr. Rumki Sarkar * Biswajit Das ** Ganesh Biswas **

- 10. Analysis of River Basin by Area-Length Relation,**

Indian Journal of Geomorphology, Vol. 23(1), 2018, pp. 41-49, ISSN: 0973-2411

- 11. Population, environment and development relationship: A Review, International journal**

of current research, April, 2018, Vol. 10, Issue-4, pp.67952-67953

- 12. Relation between Road Transport and Other Spatial Dimensions Uttar Dinajpur District of West Bengal, Arindam Dutta*, Dr. Ashoke Das**, Dr. Rumki Sarkar *** ISSN:0975-3850, FPG, Summer-2018, Vol. 22, No. 1**
- 13. Rural Settlement in a Portion of Tal Plain of Uttar Dinajpur District of West Bengal: A case study , Mr. Joyjit Debnath*, Dr. Rumki Sarkar** ISSN:0975-3850, FPG, Winter-2017, Vol. 21, No. 2**
- 14. Subsurface Flow and Evolution of Drainage Net: A Case Study of a Micro Drainage Basin, Rumki Sarkar** Geo-historical perception of environment in society, Pub. by SFSMahavidyalay, August 2017, ISBN 978-930691-2-7
- 15. Natural Resources, Landuse and Occupational Pattern : A Case Study , RumkiSarkar, FPG, Summer-2017, Vol.21, No.1, pp.21-30**
- 16. Problems and prospects of Agricultural Landuse in Burdwan Upland, West Bengal, RumkiSarkar, FPG, Summer-2016, Vol. 20, No. 1, pp.39-58**
- 17. Terraces and Springs in a portion of Rajmahal Highlands : Geomorphic Evolution of Ghutkandar River Basin, RumkiSarkar, International Journal of Technology Enhancements and Emerging Engineering Research, VOL 3, ISSUE 09, ISSN 2347-4289, 2015, pp. 105-111**
- 18. Terrains of the Burdwan Upland: A Study in Applied Geomorphology, Nageshwar Prasad*&RumkiSarkar** ,FPG, Summer-2015, Vol. 19, No. 1, pp.161-168**
- 19. Geology of the Burdwan Upland, RumkiSarkar , FPG, Winter-2014, Vol. 18, No. 2, pp.26-50**
- 20. Evaluation of water potential for irrigation and its impact on the level of irrigation development in the Burdwan Upland, West Bengal , Nageshwar Prasad*&RumkiSarkar**, IGF, Summer-2012, Vol. 16, No. 1, pp.1-14**

21. LANDUSE CHANGE AND LANDUSE MODEL IN BASUDHA VILLAGE OF KANKSA BLOCK OF BURDWAN DISTRICT, WEST BENGAL, RumkiSarkar* Milan Mondal** Dr. Nageshwar Prasad** , IGF, Summer-2011, Vol. 15, No. 1, pp.211-227
22. Terrain evaluation – A review , Dr. Nageshwar*RumkiSarkar** , International journal of current research, June, 2011, Vol. 3, Issue-7, pp.296-301
23. Measuring human development of the villages of the Burdwan Upland, West Bengal , Dr. Nageshwar Prasad* RumkiSarkar**, *Eastern Geographer* (Bhubaneswar, Odisha), June.- 2011, Vol. XVII.,No. 1
24. Land assessment for agricultural landuse- Case study for Malkita village, Burdwan district ,RumkiSarkar*, Dr. Kamala Bhattacharya** ,ILEE, June-2010, Vol. XVII.No.1, pp. 45-152
25. Channel characteristics and socio-economic profile of the Mayurakshi riverine island, Birbhum District, West Bengal, RumkiSarkar* Milan Mondal** Dr. Nageshwar Prasad***, IGF, Winter 2010, Vol. 14, No. 2, pp.25-40

B (i) Articles/Chapters published in Books

1. An Integrated Application of AHP and GIS-Based Model to Identify the Waterlogged Zones Susceptible for Water-Borne Diseases, June 2022, In *Environmental Informatics*, Ed. by Paul, P.K., Choudhury, A., Biswas, A., Singh, B.K., Singapore ISBN: 978-981-19-2082-0, pp. 259–283.
2. Subsurface Flow and Evolution of Drainage Net: A Case Study of a Micro Drainage Basin, Rumki Sarkar, Geo-historical perception of environment in society, Pub. by SFS Mahavidyalay, August 2017, ISBN 978-930691-2-7
3. Impact of Cultural Diffusion on Tribal Literature and Life: A Case Study of Tribes of Ghutkandar River Basin, RumkiSarkar, April 2016, Thoughts on Liberal Art and Popular Culture , Edt by Dr. PrabalKumar Sinha , Pub. By Ashadeep, Kolkata ISBN978-93-81245-73-6, pp. 249-256
4. Relationship between changes in cultivated area and irrigated area in the BurdwanUpland , West Bengal: an assessment, Nageshwar Prasad* and RumkiSarkar**, March, 2013. Rural

Development: Challenges and Opportunities Pub. By Geographical Society of North Bengal,
ISBN: 978-81-927059-0-3

(iii) Books Published as a Single/Joint Author/Editor

1. **Socio-Economic Environment of the Tribes of India with Special Reference to the Santals**
(2015), (Edt.) ISBN: 978-81-930691-0-3
2. **A critical assessment of methods of terrain classification** (2018), ISBN: 978-81-931261-9-6